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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1            Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2            "Ask CAS" for self-help around the clock
 NEWS  3  FEB 28  PATDPAFULL - New display fields provide for legal status
                  data from INPADOC
 NEWS  4  FEB 28  BABS - Current-awareness alerts (SDIs) available
 NEWS  5  MAR 02  GBFULL: New full-text patent database on STN
 NEWS  6  MAR 03  REGISTRY/ZREGISTRY - Sequence annotations enhanced
 NEWS  7  MAR 03  MEDLINE file segment of TOXCENTER reloaded
 NEWS  8  MAR 22  KOREAPAT now updated monthly; patent information enhanced
 NEWS  9  MAR 22  Original IDE display format returns to REGISTRY/ZREGISTRY
 NEWS 10  MAR 22  PATDPASPC - New patent database available
 NEWS 11  MAR 22  REGISTRY/ZREGISTRY enhanced with experimental property tags
 NEWS 12  APR 04  EPFULL enhanced with additional patent information and new
                  fields
 NEWS 13  APR 04  EMBASE - Database reloaded and enhanced
 NEWS 14  APR 18  New CAS Information Use Policies available online
 NEWS 15  APR 25  Patent searching, including current-awareness alerts (SDIs),
                  based on application date in CA/CAplus and USPATFULL/USPAT2
                  may be affected by a change in filing date for U.S.
                  applications.
 NEWS 16  APR 28  Improved searching of U.S. Patent Classifications for
                  U.S. patent records in CA/CAplus
 NEWS 17  MAY 23  GBFULL enhanced with patent drawing images
 NEWS 18  MAY 23  REGISTRY has been enhanced with source information from
                  CHEMCATS
 NEWS 19  JUN 06  The Analysis Edition of STN Express with Discover!
                  (Version 8.0 for Windows) now available
 NEWS 20  JUN 13  RUSSIAPAT: New full-text patent database on STN
 NEWS 21  JUN 13  FRFULL enhanced with patent drawing images
 NEWS 22  JUN 27  MARPAT displays enhanced with expanded G-group definitions
                  and text labels
 NEWS 23  JUL 01  MEDICONF removed from STN
 NEWS 24  JUL 07  STN Patent Forums to be held in July 2005

 NEWS EXPRESS  JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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FILE 'HOME' ENTERED AT 09:41:43 ON 12 JUL 2005

=> file caplus
COST IN U.S. DOLLARS                             SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.21       0.21

FILE 'CAPLUS' ENTERED AT 09:42:07 ON 12 JUL 2005
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FILE COVERS 1907 - 12 Jul 2005  VOL 143 ISS 3
FILE LAST UPDATED: 11 Jul 2005  (20050711/ED)

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  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> propane
         76474 PROPANE
          1109 PROPANES
L1       77046 PROPANE
                 (PROPANE OR PROPANES)

=> ?yl acrylate
'?YL' NOT LONG ENOUGH FOR LEFT TRUNCATION
You have entered a truncated stem whose length is less than
the minimum allowed for left truncation in the requested
search field.  You may increase the length of the stem to
the minimum allowed and try again.  Enter HELP SFIELDS to
to find the minimum stem length for left truncation in
the requested search field.

=> methylfile caplus
             0 METHYLFILE
            29 CAPLUS
L2           0 METHYLFILE CAPLUS
                 (METHYLFILE(W)CAPLUS)

=> file reg
COST IN U.S. DOLLARS                             SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    6.57       6.78

FILE 'REGISTRY' ENTERED AT 09:43:21 ON 12 JUL 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    11 JUL 2005  HIGHEST RN 854584-06-8
DICTIONARY FILE UPDATES:   11 JUL 2005  HIGHEST RN 854584-06-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> e propane/cn
E1             1      PROPANAMINIUM, OXYBIS(N,N-DIMETHYL-N-(3-((1-OXO-10-UNDECENYL
                      )AMINO)PROPYL)-, DIBROMIDE/CN
E2             1      PROPANCREATIC POLYPEPTIDE/CN
E3             1 -->  PROPANE/CN
E4             1      PROPANE ((I-BU)3ALBRCS), 2-METHYL-, ALUMINUM COMPLEX/CN
E5             1      PROPANE ((I-BU)3ALCLCS), 2-METHYL-, ALUMINUM COMPLEX/CN
E6             1      PROPANE ((I-BU)3ALCLRB), 2-METHYL-, ALUMINUM COMPLEX/CN
E7             1      PROPANE ((I-BU)3ALFK), 2-METHYL-, ALUMINUM COMPLEX/CN
E8             1      PROPANE 1,3-BIS(SELENOCYANATE)/CN
E9             1      PROPANE CONJUGATE ACID/CN
E10            1      PROPANE DIALDEHYDE BIS(GUANYLHYDRAZONE)/CN
E11            1      PROPANE DICHLORIDE/CN
E12            1      PROPANE HYDRATE-D2 (1:17)/CN

=> e3
L3             1 PROPANE/CN

=> e methyl acrylate
E1             1      METHYISOAMERICANOL/BI
E2      15229897      METHYL/BI
E3             0 -->  METHYL ACRYLATE/BI
E4             1      METHYL CARBAMATO-N/BI
E5             1      METHYL'/BI
E6             3      METHYL,1,2,3,4/BI
E7             1      METHYL,2,2A:METHYL',3B,3C/BI
E8             1      METHYL,4/BI
E9             1      METHYL,6'/BI
E10            3      METHYL,METHYL,3,4/BI
E11            1      METHYL,METHYL,METHYL/BI
E12            1      METHYL,METHYL,METHYL,2,4,4/BI

=> e methyl acrylate/cn
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E1           1      METHYL ACRYLAMIDOGLYCOLATE METHYL ETHER HOMOPOLYMER/CN
E2           1      METHYL ACRYLAMIDOGLYCOLATE METHYL ETHER-VINYLPYRROLIDONE COP
                    OLYMER/CN
E3           1 --> METHYL ACRYLATE/CN
E4           1      METHYL ACRYLATE COMPOUND WITH METHYL LINOLATE (1:1)/CN
E5           1      METHYL ACRYLATE DIANION/CN
E6           1      METHYL ACRYLATE DIMER/CN
E7           1      METHYL ACRYLATE HOMOPOLYMER/CN
E8           1      METHYL ACRYLATE HOMOPOLYMER DOCOSYL ESTER/CN
E9           1      METHYL ACRYLATE HOMOPOLYMER DODECYL ESTER/CN
E10          1      METHYL ACRYLATE HOMOPOLYMER EICOSYL ESTER/CN
E11          1      METHYL ACRYLATE HOMOPOLYMER ESTER WITH 1-(2-HYDROXYETHYL) PY
                    RROLIDINE/CN
E12          1      METHYL ACRYLATE HOMOPOLYMER ESTER WITH 2-(2-HYDROXYETHYL)PYR
                    IDINE/CN

=> e3
L4           1 "METHYL ACRYLATE"/CN

=> e ethyl acrylate/cn
E1           1      ETHYL ACRYALTE-N-METHOXYMETHYLACRYLAMIDE-STYRENE-ETHYL ACRYL
                    ATE-2-ETHYLHEXYL ACRYLATE-ACRYLIC ACID-2-HYDROXYETHYL METHAC
                    RYLATE GRAFT COPOLYMER/CN
E2           1      ETHYL ACRYLACETATE-2-ETHYLHEXYL ACRYLATE-METHYL METHACRYLATE
                    -STYRENE POLYMER/CN
E3           1 --> ETHYL ACRYLATE/CN
E4           1      ETHYL ACRYLATE 1-PHENYL-3-METHACRYLAMIDO-5-PYRAZOLONE POLYME
                    RS/CN
E5           1      ETHYL ACRYLATE COPOLYMERS/CN
E6           1      ETHYL ACRYLATE DIMER/CN
E7           1      ETHYL ACRYLATE ETHYL METHACRYLATE-N-METHYLOLACRYLAMIDE TERPO
                    LYMER/CN
E8           1      ETHYL ACRYLATE HOMOPOLYMER/CN
E9           1      ETHYL ACRYLATE HOMOPOLYMER 2-(VINYLOXYETHOXY)ETHYL ESTER/CN
E10          1      ETHYL ACRYLATE POLYMER/CN
E11          1      ETHYL ACRYLATE POLYMER, SYNDIOTACTIC/CN
E12          1      ETHYL ACRYLATE POLYMERS/CN

=> e3
L5           1 "ETHYL ACRYLATE"/CN

=> file caplus
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        15.09      21.87

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FILE COVERS 1907 - 12 Jul 2005  VOL 143 ISS 3
FILE LAST UPDATED: 11 Jul 2005  (20050711/ED)
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  substance identification.

=> l3/rect
'RECT' IS NOT A VALID CROSSOVER QUALIFIER FOR L3
Answer sets created in a different file may be field qualified with a
limited set of qualifiers.  Enter HELP CROSSOVER at an arrow prompt
(=>) for specific information.

=> l3/rct
          33534 L3
        2749402 RCT/RL
L6         8706 L3/RCT
                  (L3 (L) RCT/RL)

=> l4/prep
          12893 L4
        3327837 PREP/RL
L7          904 L4/PREP
                  (L4 (L) PREP/RL)

=> l5/prep
           7636 L5
        3327837 PREP/RL
L8          787 L5/PREP
                  (L5 (L) PREP/RL)

=> l7 or l8
L9         1493 L7 OR L8

=> l6(l)l9
L10           0 L6(L)L9

=> l6 and l9
L11           5 L6 AND L9

=> d l11 1-5 ti

L11  ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Thermal separating process for removing at least one stream containing
     enriched (meth)acrylic monomers

L11  ANSWER 2 OF 5  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Process comprising efficient cleaning of distillation columns for
     producing (meth)acrylic acids or their esters

L11  ANSWER 3 OF 5  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Process for preparation of (meth)acrylic acid compounds

L11  ANSWER 4 OF 5  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Hydrocarbons having a terminal double bond and their derivatives

L11  ANSWER 5 OF 5  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Catalyst promoters for dehydrogenation of organic compounds


=> d l11 1-5 ti fbib abs

L11  ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Thermal separating process for removing at least one stream containing
     enriched (meth)acrylic monomers
AN   2005:34263  CAPLUS
DN   142:115267
```

```
TI   Thermal separating process for removing at least one stream containing
     enriched (meth)acrylic monomers
IN   Eck, Bernd; Hammon, Ulrich; Muller-Engel, Klaus Joachim; Schroder, Jurgen;
     Thiel, Joachim; Martan, Hans
PA   BASF Aktiengesellschaft, Germany
SO   U.S. Pat. Appl. Publ., 27 pp., which
     CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 2
     PATENT NO.          KIND    DATE          APPLICATION NO.          DATE
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PI   US 2005006219        A1     20050113      US 2004-879737           20040630
                                               DE 2003-10331720     A   20030711
                                               US 2003-486168P      P   20030711
                                               DE 2003-10332758     A   20030717
                                               US 2003-487587P      P   20030717
     DE 10332758          A1     20040527      DE 2003-10332758         20030717
PATENT FAMILY INFORMATION:
FAN  2004:429674
     PATENT NO.          KIND    DATE          APPLICATION NO.          DATE
     ---------------     ----    --------      --------------------     --------
PI   DE 10332758          A1     20040527      DE 2003-10332758         20030717
     WO 2005007609        A1     20050127      WO 2004-EP6890           20040625
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
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             SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
             SN, TD, TG
                                               DE 2003-10331720     A   20030711
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                                               US 2003-487587P      P   20030717
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                                               US 2003-486168P      P   20030711
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     WO 2005007610        A1     20050127      WO 2004-EP7583           20040709
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             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
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             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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             SN, TD, TG
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                                               US 2003-487587P      P   20030717
     US 2005090628        A1     20050428      US 2004-888933           20040712
                                               DE 2003-10331720     A   20030711
                                               US 2003-486168P      P   20030711
                                               DE 2003-10332758     A   20030717
                                               US 2003-487587P      P   20030717
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AB   A thermal separating process for removing a stream containing enriched
     (meth)acrylic monomers from a mixture containing (meth)acrylic monomers, in
     which the liquid phases retained in the separating space at high temperature
and high
     (meth)acrylic monomer content are minimized.

L11  ANSWER 2 OF 5  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Process comprising efficient cleaning of distillation columns for
     producing (meth)acrylic acids or their esters
AN   2004:220299  CAPLUS
DN   140:254055
TI   Process comprising efficient cleaning of distillation columns for
     producing (meth)acrylic acids or their esters
IN   Yada, Shuhei; Ogawa, Yasushi; Takasaki, Kenji; Suzuki, Yoshiro
PA   Mitsubishi Chemical Corporation, Japan
SO   PCT Int. Appl., 30 pp.
     CODEN: PIXXD2
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.          KIND    DATE        APPLICATION NO.        DATE
     ---------------     ----    --------    --------------------   --------
PI   WO 2004022518        A1     20040318    WO 2003-JP11205        20030902
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH,
             PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT,
             TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                             JP 2002-257275      A  20020903
     JP 2004091424        A2     20040325    JP 2002-257275         20020903
     BR 2003006213        A      20040824    BR 2003-6213           20030902
                                             JP 2002-257275      A  20020903
                                             WO 2003-JP11205     W  20030902
     EP 1535893           A1     20050601    EP 2003-794184         20030902
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             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                             JP 2002-257275      A  20020903
                                             WO 2003-JP11205     W  20030902
     US 2005059838        A1     20050317    US 2004-837177         20040503
                                             JP 2002-257275      A  20020903
                                             WO 2003-JP11205     A1 20030902
AB   The present invention relates to a process for producing a (meth)acrylic
     acid compound by purifying acrylic acid, methacrylic acid, or an ester of
     either by distillation in a distillation column, characterized in that, in the
course
     of the operation of the distillation column including the suspension and
     resumption of operation, the distillation column is washed with water and,
     thereafter, inside washing with an organic solvent and/or azeotropic
distillation
     in the presence of an organic solvent is conducted.  Washing with an aqueous
     alkali solution may be addnl. conducted before the water washing according to
     need.  Thus, the distillation column for the separation/purification of crude
     (meth)acrylic acid compds. can be easily cleaned.  In particular, in a
     process for producing (meth)acrylic acid compds., a substance to be used
     in a step before or after the distillation column can be utilized to recover a
     valuable substance and efficiently clean the distillation column.  By this
     process (meth)acrylic acid compds. with high purities can be produced
     continuously without polymer fouling on distillation columns.
RE.CNT  11    THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L11  ANSWER 3 OF 5  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Process for preparation of (meth)acrylic acid compounds
AN   2003:454269  CAPLUS
DN   139:36256
TI   Process for preparation of (meth)acrylic acid compounds
IN   Yada, Shuhei; Ogawa, Yasushi; Suzuki, Yoshiro; Takahashi, Kiyoshi;
     Takasaki, Kenji
PA   Mitsubishi Chemical Corporation, Japan
SO   PCT Int. Appl., 66 pp.
     CODEN: PIXXD2
DT   Patent
LA   Japanese
FAN.CNT 2
     PATENT NO.          KIND    DATE          APPLICATION NO.        DATE
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PI   WO 2003048100        A1     20030612      WO 2002-JP12709        20021204
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             GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT,
             RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
             UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF,
             CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                               JP 2001-369636      A  20011204
                                               JP 2001-371608      A  20011205
                                               JP 2001-385168      A  20011218
                                               JP 2001-392058      A  20011225
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                                               JP 2002-141194      A  20020516
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     JP 2003171342        A2     20030620      JP 2001-371608         20011205
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                                               JP 2001-385168      A  20011218
     JP 2003252824        A2     20030910      JP 2002-360879         20021212
                                               JP 2001-392058      A  20011225
     JP 2004043448        A2     20040212      JP 2003-135640         20030514
                                               JP 2002-141162      A  20020516
     JP 2004043451        A2     20040212      JP 2003-135721         20030514
                                               JP 2002-141194      A  20020516
     US 2004220426        A1     20041104      US 2004-859221         20040603
                                               JP 2001-369636      A  20011204
                                               JP 2001-371608      A  20011205
                                               JP 2001-385168      A  20011218
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                                                  JP 2001-392058      A  20011225
                                                  JP 2002-141162      A  20020516
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                                                  WO 2002-JP12709     A1 20021204
PATENT FAMILY INFORMATION:
FAN  2003:439530
     PATENT NO.          KIND    DATE          APPLICATION NO.        DATE
     ---------------     ----    --------      --------------------   --------
PI   JP 2003164703        A2     20030610      JP 2001-369636         20011204
     WO 2003048100        A1     20030612      WO 2002-JP12709        20021204
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT,
             RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
             UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF,
             CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                                  JP 2001-369636      A  20011204
                                                  JP 2001-371608      A  20011205
                                                  JP 2001-385168      A  20011218
                                                  JP 2001-392058      A  20011225
                                                  JP 2002-141162      A  20020516
                                                  JP 2002-141194      A  20020516
     EP 1452518           A1     20040901      EP 2002-786024         20021204
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
                                                  JP 2001-369636      A  20011204
                                                  JP 2001-371608      A  20011205
                                                  JP 2001-385168      A  20011218
                                                  JP 2001-392058      A  20011225
                                                  JP 2002-141162      A  20020516
                                                  JP 2002-141194      A  20020516
                                                  WO 2002-JP12709     W  20021204
     BR 2002014697        A      20040914      BR 2002-14697          20021204
                                                  JP 2001-369636      A  20011204
                                                  JP 2001-371608      A  20011205
                                                  JP 2001-385168      A  20011218
                                                  JP 2001-392058      A  20011225
                                                  JP 2002-141162      A  20020516
                                                  JP 2002-141194      A  20020516
                                                  WO 2002-JP12709     W  20021204
     US 2004220426        A1     20041104      US 2004-859221         20040603
                                                  JP 2001-369636      A  20011204
                                                  JP 2001-371608      A  20011205
                                                  JP 2001-385168      A  20011218
                                                  JP 2001-392058      A  20011225
                                                  JP 2002-141162      A  20020516
                                                  JP 2002-141194      A  20020516
                                                  WO 2002-JP12709     A1 20021204
AB   This invention pertains to a method for producing (meth)acrylic acid
     derivs. which comprises a reaction step comprising the vapor-phase
     catalytic oxidation of propylene, propane, or isobutylene, and optionally
     further includes a reaction step comprising esterification and in which a
     mixture having high b.ps. containing a Michael addition product is decomposed
with a
     pyrolysis reactor to recover the (meth)acrylic acid compds.  This method
     provides a long-term continuous operation for producing (meth)acrylic acid
     compds.
RE.CNT  8       THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
                ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11  ANSWER 4 OF 5  CAPLUS  COPYRIGHT 2005 ACS on STN
```

```
TI   Hydrocarbons having a terminal double bond and their derivatives
AN   1984:120494  CAPLUS
DN   100:120494
TI   Hydrocarbons having a terminal double bond and their derivatives
PA   Nojiri, Hichiro, Japan
SO   Jpn. Kokai Tokkyo Koho, 3 pp.
     CODEN: JKXXAF
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.          KIND   DATE         APPLICATION NO.        DATE
     ---------------     ----   --------     --------------------   --------
PI   JP 58194821          A2    19831112     JP 1982-76524          19820510
                                             JP 1982-76524          19820510
AB   Terminal olefins and their derivs. were prepared by reaction of hydrocarbons
     having one less carbon or their derivs. with CH2(OMe)2 (I).  Thus, 50 g
     CH4 and 250 g I were vaporized and passed in cycle over Al2O3-BF3 at
     850° to give 40 g C2H4.  Similarly, C3H8, AcOMe, MeCN, MeCl, and
     CH2Cl2 were converted to EtCH:CH2, H2C:CHCO2Me, H2C:CHCN, H2C:CHCl, and
     H2C:CCl2, resp.

L11  ANSWER 5 OF 5  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Catalyst promoters for dehydrogenation of organic compounds
AN   1972:71556  CAPLUS
DN   76:71556
TI   Catalyst promoters for dehydrogenation of organic compounds
IN   Blood, Alden E.; Statman, Max
PA   Eastman Kodak Co.
SO   Ger. Offen., 21 pp.
     CODEN: GWXXBX
DT   Patent
LA   German
FAN.CNT 1
     PATENT NO.          KIND   DATE         APPLICATION NO.        DATE
     ---------------     ----   --------     --------------------   --------
PI   DE 2124438           A     19720113     DE 1971-2124438        19710517
                                             US 1970-41578       A  19700528
     US 3770812           A     19731106     US 1970-41578          19700528
                                                                 A
     GB 1355322           A     19740605     GB 1971-17618          19710527
                                             US 1970-41578       A  19700528
AB   Organic compds. were dehydrogenated with O in the presence of HI catalyst
     with increased O efficiency, yield, and conversion by using a catalyst
     promoter consisting of V2O5 or Fe2O3 on an inert support.  Thus, molten
     Al2O3 pellets (0.32 + 0.32 cm) of <1 m2 surface area/g were immersed
     in 2% NH4VO3 and dried at 260° to give a catalyst promoter.  Me
     isobutyrate containing 2.0% HI and air were passed at 2:1 Me isobutyrate-O
     ratio through a Vycor tube of diameter 2.54 cm and length 71.1 cm containing
the
     above catalyst promoter at 610° and 1.1 sec contact time to give
     50% Me methacrylate at 20% conversion and a waste gas containing <1% O as
     compared with 47% Me methacrylate at 17% conversion and a waste gas containing
     3.6% O without catalyst promoter.  Approx. 25 organic compds., e.g. esters,
     paraffins, ketones, or cyclic hydrocarbons, were dehydrogenated similarly.


=> logoff hold
COST IN U.S. DOLLARS                             SINCE FILE       TOTAL
                                                      ENTRY     SESSION
FULL ESTIMATED COST                                   35.87       57.74

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)       SINCE FILE       TOTAL
                                                      ENTRY     SESSION
CA SUBSCRIBER PRICE                                   -3.65       -3.65
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```
 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:48:10 ON 12 JUL 2005

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:25:54 ON 12 JUL 2005
FILE 'CAPLUS' ENTERED AT 10:25:54 ON 12 JUL 2005
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COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        35.87      57.74

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)            SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                        -3.65      -3.65

=> d his

     (FILE 'HOME' ENTERED AT 09:41:43 ON 12 JUL 2005)

     FILE 'CAPLUS' ENTERED AT 09:42:07 ON 12 JUL 2005
L1        77046 PROPANE
L2            0 METHYLFILE CAPLUS

     FILE 'REGISTRY' ENTERED AT 09:43:21 ON 12 JUL 2005
                E PROPANE/CN
L3            1 E3
                E METHYL ACRYLATE
                E METHYL ACRYLATE/CN
L4            1 E3
                E ETHYL ACRYLATE/CN
L5            1 E3

     FILE 'CAPLUS' ENTERED AT 09:44:59 ON 12 JUL 2005
L6         8706 L3/RCT
L7          904 L4/PREP
L8          787 L5/PREP
L9         1493 L7 OR L8
L10           0 L6(L)L9
L11           5 L6 AND L9

=> logoff hold
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        36.32      58.19

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)            SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                        -3.65      -3.65

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:26:43 ON 12 JUL 2005

Connecting via Winsock to STN
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LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:30:48 ON 12 JUL 2005
FILE 'CAPLUS' ENTERED AT 10:30:48 ON 12 JUL 2005
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COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    36.32      58.19

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -3.65      -3.65

=> file reg
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    36.32      58.19

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -3.65      -3.65

FILE 'REGISTRY' ENTERED AT 10:30:57 ON 12 JUL 2005
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    11 JUL 2005  HIGHEST RN 854584-06-8
DICTIONARY FILE UPDATES:   11 JUL 2005  HIGHEST RN 854584-06-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
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Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10681420\10681420 acrylate product.str
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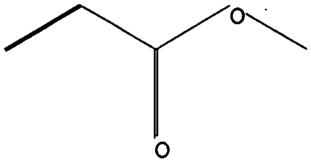

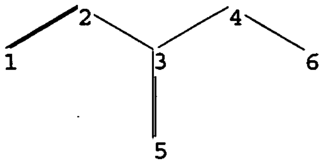

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chain nodes :
1  2  3  4  5  6
chain bonds :
1-2  2-3  3-4  3-5  4-6
exact/norm bonds :
3-4  3-5  4-6
exact bonds :
1-2  2-3


Hydrogen count :
1:>= minimum 2  2:>= minimum 1
Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS



L12      STRUCTURE UPLOADED

=> d l12
L12 HAS NO ANSWERS
L12               STR
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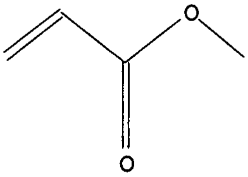

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Structure attributes must be viewed using STN Express query preparation.


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SAMPLE SEARCH INITIATED 10:31:26 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -  46877 TO ITERATE

  4.3% PROCESSED     2000 ITERATIONS                              50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE   **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:        924623 TO   950457
PROJECTED ANSWERS:           155874 TO   166638

L13          50 SEA SSS SAM L12

=> d scan

L13  50 ANSWERS   REGISTRY  COPYRIGHT 2005 ACS on STN
IN   Cholest-5-en-3-ol (3β)-, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate
     (9CI)
MF   C39 H56 O5
```
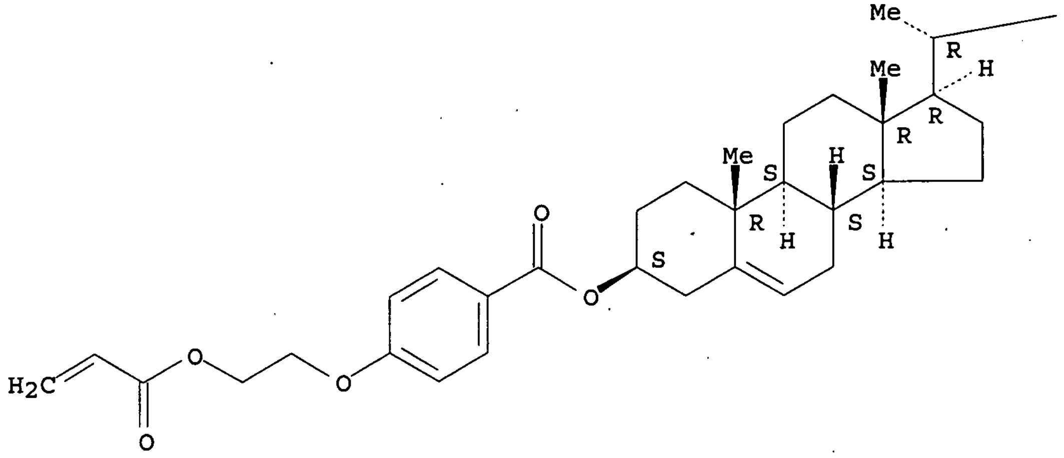
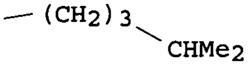

```
CI   COM

Absolute stereochemistry.
```

PAGE 1-A



PAGE 1-B



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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> search l12 sss full
FULL SEARCH INITIATED 10:31:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 938062 TO ITERATE

100.0% PROCESSED   938062 ITERATIONS                         162209 ANSWERS
SEARCH TIME: 00.00.09

L14       162209 SEA SSS FUL L12

=> file caplus
COST IN U.S. DOLLARS                               SINCE FILE      TOTAL
                                                        ENTRY    SESSION
FULL ESTIMATED COST                                    161.76     219.95

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)         SINCE FILE      TOTAL
                                                        ENTRY    SESSION
CA SUBSCRIBER PRICE                                      0.00      -3.65

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FILE COVERS 1907 - 12 Jul 2005  VOL 143 ISS 3
FILE LAST UPDATED: 11 Jul 2005  (20050711/ED)

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  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> l14
<------User Break------>

SEARCH ENDED BY USER

=> l14/prep
        170866 L14
       3327837 PREP/RL
L15      56766 L14/PREP
                 (L14 (L) PREP/RL)

=> d his

     (FILE 'HOME' ENTERED AT 09:41:43 ON 12 JUL 2005)

     FILE 'CAPLUS' ENTERED AT 09:42:07 ON 12 JUL 2005
L1        77046 PROPANE
L2            0 METHYLFILE CAPLUS

     FILE 'REGISTRY' ENTERED AT 09:43:21 ON 12 JUL 2005
                E PROPANE/CN
L3            1 E3
                E METHYL ACRYLATE
                E METHYL ACRYLATE/CN
L4            1 E3
                E ETHYL ACRYLATE/CN
L5            1 E3

     FILE 'CAPLUS' ENTERED AT 09:44:59 ON 12 JUL 2005
L6         8706 L3/RCT
L7          904 L4/PREP
L8          787 L5/PREP
L9         1493 L7 OR L8
L10           0 L6(L)L9
L11           5 L6 AND L9

     FILE 'REGISTRY' ENTERED AT 10:30:57 ON 12 JUL 2005
L12             STRUCTURE UPLOADED
L13          50 SEARCH L12 SSS SAM
L14      162209 SEARCH L12 SSS FULL

     FILE 'CAPLUS' ENTERED AT 10:32:21 ON 12 JUL 2005
L15       56766 L14/PREP

=> l6 and l15
L16          5 L6 AND L15

=> l16 not l11
L17          0 L16 NOT L11

=> save temp all estersrch/l
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L# LIST L1-L17 HAS BEEN SAVED AS 'ESTERSRCH/L'

=> save temp l15 prodestrs/a
ANSWER SET L15 HAS BEEN SAVED AS 'PRODESTRS/A'

=> logoff hold
COST IN U.S. DOLLARS                             SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    5.04     224.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)       SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00      -3.65

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:36:41 ON 12 JUL 2005

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:52:30 ON 12 JUL 2005
FILE 'CAPLUS' ENTERED AT 10:52:30 ON 12 JUL 2005
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COST IN U.S. DOLLARS                             SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    5.04     224.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)       SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00      -3.65

=> d his

     (FILE 'HOME' ENTERED AT 09:41:43 ON 12 JUL 2005)

     FILE 'CAPLUS' ENTERED AT 09:42:07 ON 12 JUL 2005
L1        77046 PROPANE
L2            0 METHYLFILE CAPLUS

     FILE 'REGISTRY' ENTERED AT 09:43:21 ON 12 JUL 2005
                E PROPANE/CN
L3            1 E3
                E METHYL ACRYLATE
                E METHYL ACRYLATE/CN
L4            1 E3
                E ETHYL ACRYLATE/CN
L5            1 E3

     FILE 'CAPLUS' ENTERED AT 09:44:59 ON 12 JUL 2005
L6         8706 L3/RCT
L7          904 L4/PREP
L8          787 L5/PREP
L9         1493 L7 OR L8
L10           0 L6(L)L9
L11           5 L6 AND L9
```

```
     FILE 'REGISTRY' ENTERED AT 10:30:57 ON 12 JUL 2005
L12                STRUCTURE UPLOADED
L13             50 SEARCH L12 SSS SAM
L14         162209 SEARCH L12 SSS FULL

     FILE 'CAPLUS' ENTERED AT 10:32:21 ON 12 JUL 2005
L15          56766 L14/PREP
L16              5 L6 AND L15
L17              0 L16 NOT L11
                   SAVE TEMP ALL ESTERSRCH/L
                   SAVE TEMP L15 PRODESTRS/A

=> alkane
         37512 ALKANE
         68299 ALKANES
L18      82747 ALKANE
                 (ALKANE OR ALKANES)

=> l15 and l18
L19        162 L15 AND L18

=> d l19 152-162 ti

L19  ANSWER 152 OF 162  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Biologically degradable, nonionic emulsifiers

L19  ANSWER 153 OF 162  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Foamable styrene polymer particles

L19  ANSWER 154 OF 162  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Compositions for use in prosthodontia

L19  ANSWER 155 OF 162  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Purification of hydroxylalkyl monoacrylates

L19  ANSWER 156 OF 162  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Vinyl polymer latexes with low viscosity

L19  ANSWER 157 OF 162  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Unsaturated ester of polyhydroxy-bis-oxazolines

L19  ANSWER 158 OF 162  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Sulfoalkyl acrylate or methacrylate salts

L19  ANSWER 159 OF 162  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Emulsion poly(vinyl chloride) having improved transparency

L19  ANSWER 160 OF 162  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Effect of the hydrophilic nature of the phase interface on the relation
     between the rates of polymerization and emulsifier adsorption in emulsion
     systems

L19  ANSWER 161 OF 162  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Fluorinated dialkyl mono- and polysulfates.  I.  Preparation and some
     reactions

L19  ANSWER 162 OF 162  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Fluoroalkyl acrylates derived from fluoro ketones.  Effect of fluoroalkyl
     modification on the critical surface tension


=> l18 (l)l19
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L18 (L)L19'
L20        162 L18 (L)L19
```

```
=> l15 (l)l18
L21          7 L15 (L)L18

=> d l21 1-7 ti

L21  ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Water-borne coating compositions and stabilization methods therefor

L21  ANSWER 2 OF 7  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Use of polyhydroxy-functional alkanes as adhesion promoters for bonding
     automobile windshields to coated surfaces

L21  ANSWER 3 OF 7  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Poly(amidoamine-organosilicon) (PAMAMOS) dendrimers and their derivatives
     of higher degree of structural complexity

L21  ANSWER 4 OF 7  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Quaternary ammonium and amide group-containing copolymers of (meth)acrylic
     acid having antistatic properties and their use

L21  ANSWER 5 OF 7  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   General Synthesis of (Z)-Alk-1-en-1-yl Esters via Ruthenium-Catalyzed
     anti-Markovnikov trans-Addition of Carboxylic Acids to Terminal Alkynes

L21  ANSWER 6 OF 7  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Hair-setting aerosol sprays containing acrylic anionic resins, alcohols,
     and hydrocarbon propellants

L21  ANSWER 7 OF 7  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Foamable styrene polymer particles


=> logoff hold
COST IN U.S. DOLLARS                               SINCE FILE     TOTAL
                                                        ENTRY   SESSION
FULL ESTIMATED COST                                     14.94    234.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)         SINCE FILE     TOTAL
                                                        ENTRY   SESSION
CA SUBSCRIBER PRICE                                      0.00     -3.65

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:55:23 ON 12 JUL 2005
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